

Abstract

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A permanent-magnetically excited electric machine comprising a stator part (2) and a moving part (30) movable relative to the stator part (2), as well as an air gap (8) between the stator part (2) and the moving part (30), with one of said stator part (2) and said moving part (30) having a flux path assembly for magnetic flux and winding coils (6) and the other one of said stator part (2) and said moving part (30) having a flux path assembly for magnetic flux and permanent magnets (36), characterized in that there is provided a flux conduction liquid (18) that is conductive for magnetic flux; and that in the region of the flux path assembly of the stator part (2) and/or of the moving part (30), there is provided at least one filling space (12; 16; 20; 38; 46; 48; 50) which, for changing the magnetic flux conductivity of the flux path assembly, may have optionally more or less flux conduction liquid supplied (18) thereto.

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(Fig. 4)